SERVICE MANUAL

STEREO TURNTABLE

SANYO

TP1010UM BLACK

(EUROPE)

SPECIFICATIONS

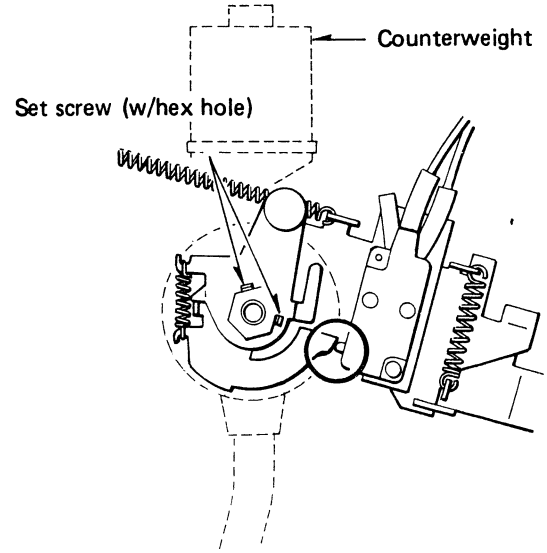
Motor	PLL servomotor (TP 1010)	Cartridge	Magnetic stereo cartridge: (MG-10J)
Drive system	Belt drive	Stylus	0.5 mil diamond stylus: (ST-10J)
Speeds	33-1/3 and 45 rpm	Stylus pressure	1.5 – 2.5 g.
Speed control range	Individual controls: ±4%	Frequency responce	20 – 20,000 Hz
Speed change	Electronic type	Overhang	15 mm
Wow & flutter	0.05% WRMS	Channel separation	Better than 25 dB
Signal to noise ratio	Better than 60dB	Power source	AC: 110/125/220V 50Hz
Turntable platter	12" (30.5 cm) 1 lbs. 5 ozs. (0.6kg)	Power consumption	7 W
		Dimensions	Approx: 17-1/2"(W) x 5-5/8"(H) x 14-1/4"(D) (440 x 140 x 360 mm)
Tone arm	Static-balance type		
Tracking error	±1.5°		
Tracking force range	0 – 4 g.	Weight	Approx. 10 lbs. 2 ozs. (4.6 kg)

* Specifications and design are subject to change without notice.

ADJUSTMENT

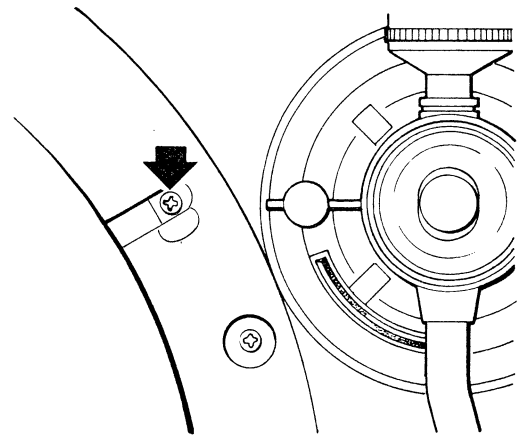
ADJUSTMENT OF TONEARM LEVER

Set the turntable unit upside down after putting the tonearm on the arm rest and securing it.
Then, loosen the set screw (w/hex hole) and position the lever (M14) in such a way that the protrusion of the micro-switch contacts the foremost end of the lever.



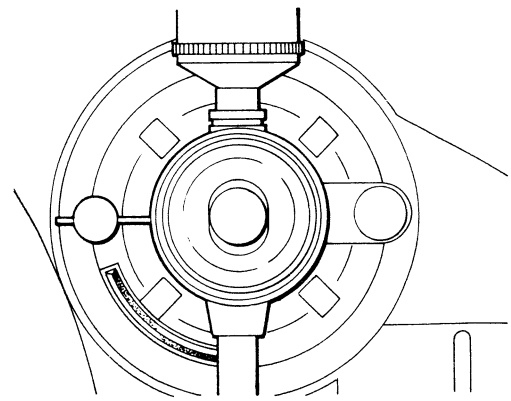
ADJUSTMENT OF MICRO-SWITCH

Set the turntable unit back in its normal position (the turntable platter at the top). Loosen the phillips screw (see illustration) with a screwdriver and adjust the micro-switch position so that the micro-switch will be turned on when the tonearm has moved a little toward the turntable center (namely, to the mirror of the deck panel).



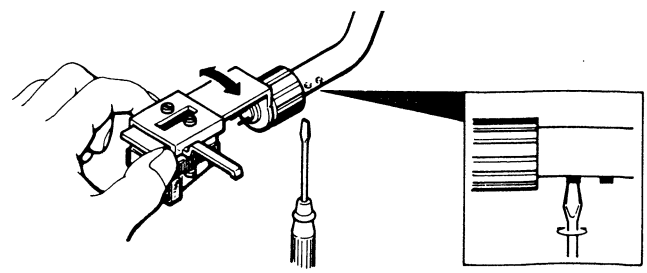
ADJUSTMENT OF AUTO-RETURN

There is a shaft which is accessible with an ordinary screwdriver through the hole below the tonearm. (See illustration at right.) When the stylus has reached a point approximately 55mm from the turntable center, turn the shaft clockwise or counterlockwise and select a position where it actuates the auto-return.



ADJUSTMENT OF HEADSHELL

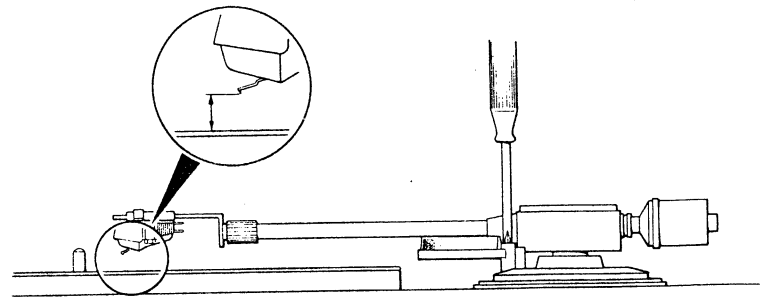
The headshell attached to the tonearm should not be inclined either to the right or to the left. If necessary, loosen the two screws on the bottom of the tubular arm and adjust the headshell. Be sure that the stylus is normal to the record surface.



ADJUSTMENT

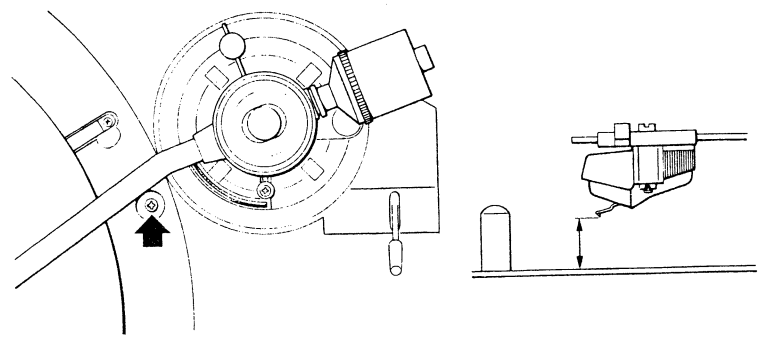
ADJUSTMENT OF TONEARM LIFTER

Set the cuing lever to UP and the distance between the stylus and the record to about 9mm by adjusting the arm lifter screw.



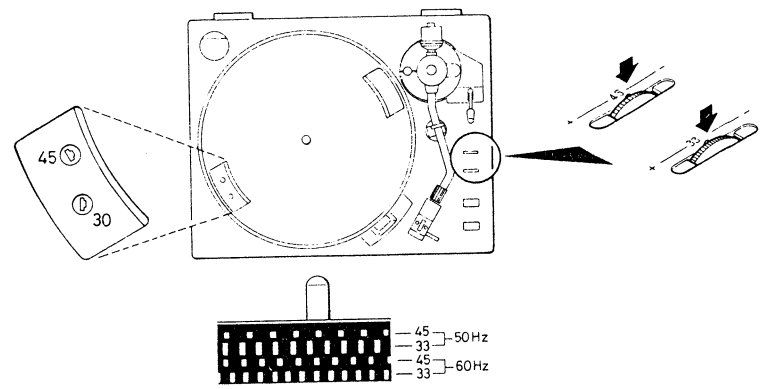
ADJUSTMENT OF LIFT-UP LEVER SPRING

Switch off power when the auto-return has worked and adjust spring tension to provide a clearance of 11mm between the stylus and the record.

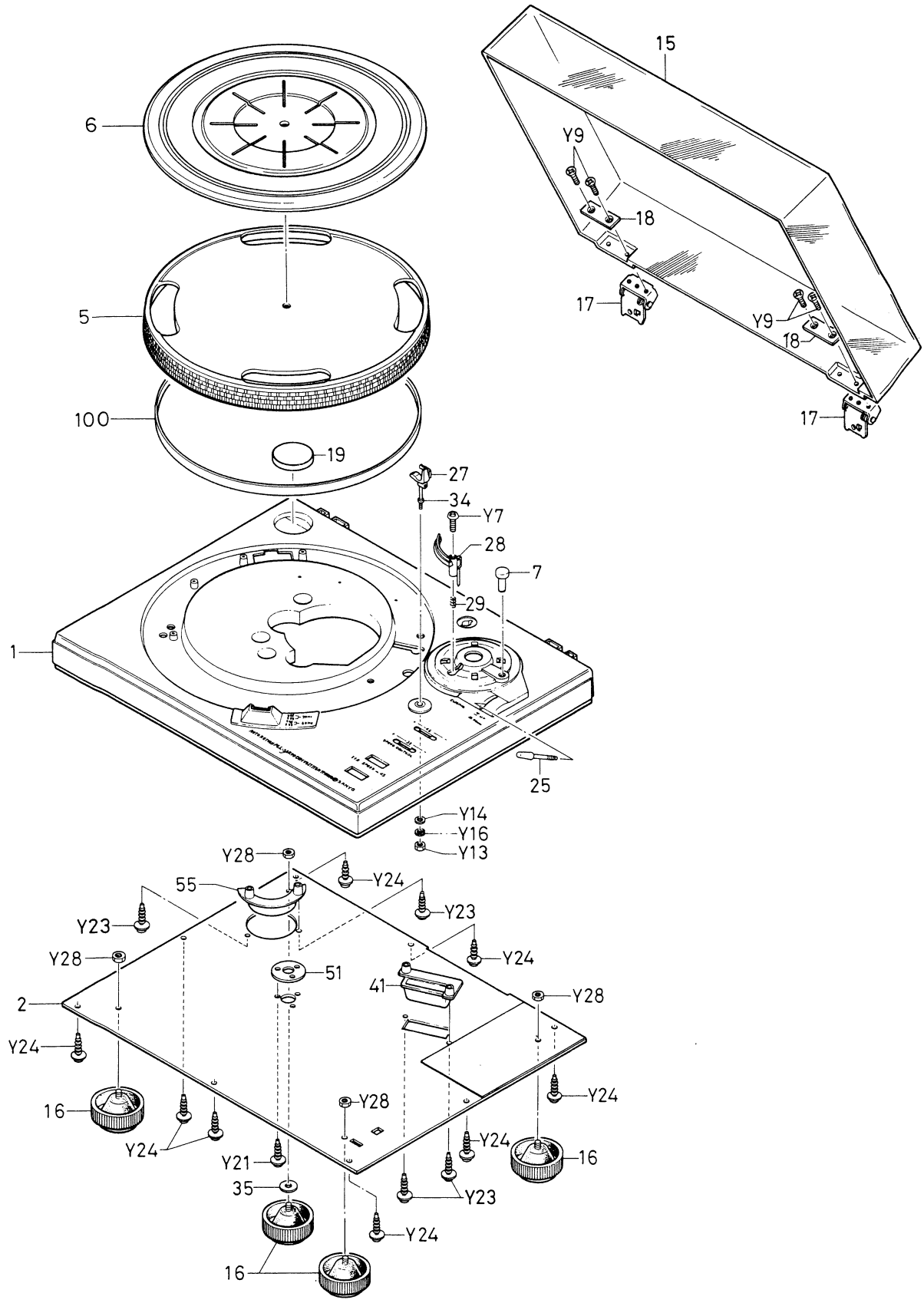


ADJUSTMENT OF TURNTABLE SPEED

Set the fine speed control dials to their center positions (each has three protrusions, of which only one can be set to the center). Make adjustment by inserting a screwdriver into the holes. When properly adjusted, the zebra stroboscope marks on the turntable platter seém to be stationary at the selected speed.



CABINET EXPLODED VIEW

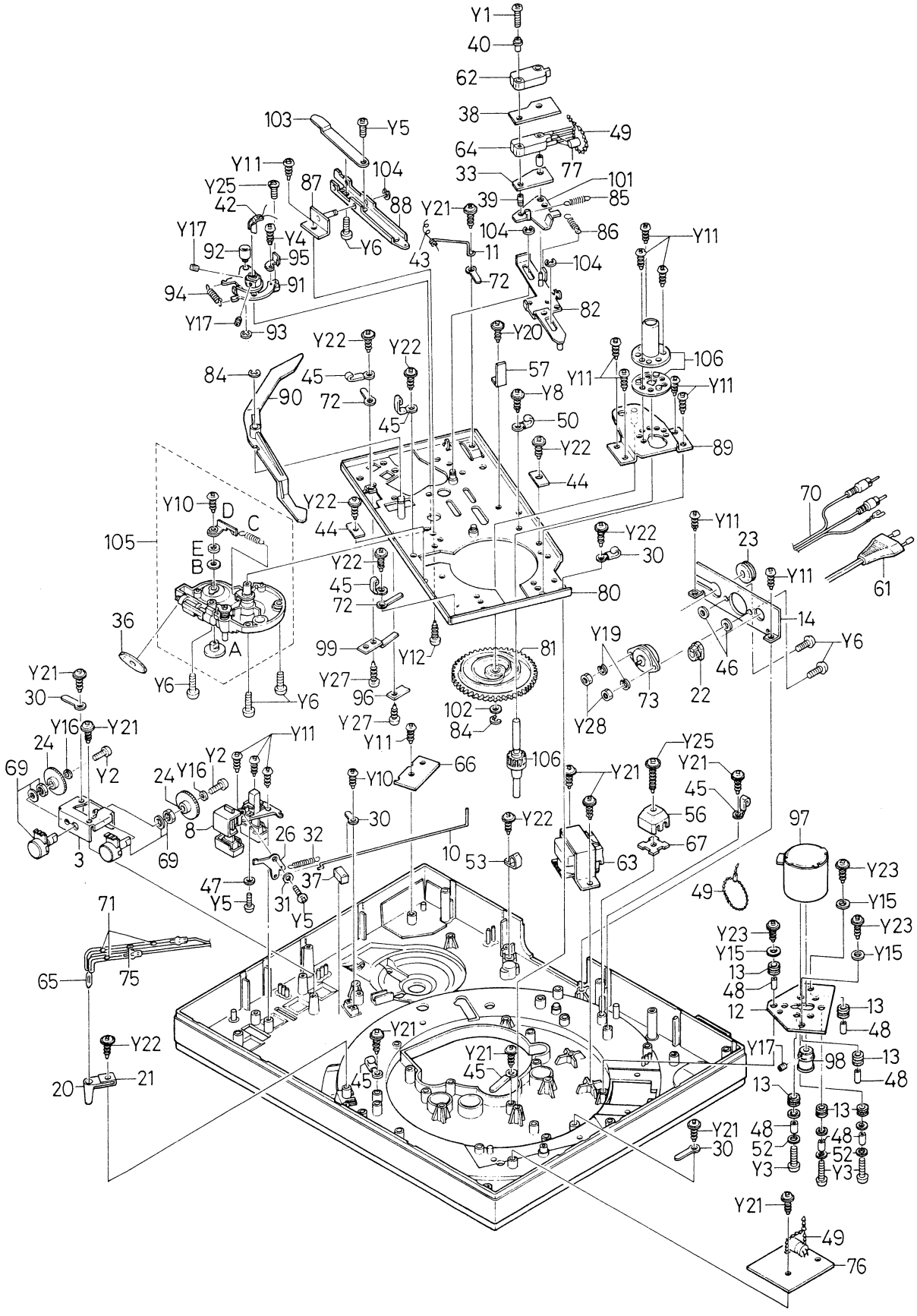


PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	PACKING		
	141-6-113T-84100	Individual Carton	1
	141-6-144T-44300	Form Plastic Case, Set Side	2
	141-6-316T-89300	Pad, Set Top	1
	141-6-231T-60700	Inner Poly Cover, 600x700, Set	1
	141-6-231T-35400	Inner Poly Cover, 350x400, Turntable & Turntable Sheet	2
	141-6-231T-10200	Inner Poly Cover 100x200, Power Cord & Output Power Cord	2
	141-6-231T-25300	Inner Poly Cover 200x300, Inst. B.	1
	141-6-231T-10100	Inner Poly Cover 100x100, Cartridge, Main Weight & Lateral Balance	3
	141-2-337T-10000	Ribbon, Tone Arm Fixed	1
	141-6-479T-07700	Label, Voltage Select	1
	141-6-316T-88500	Pad, Dust Cover	1
	141-6-415T-21900	Notice, Hollander	
	ACCESSORIES		
	141-6-410T-04900	Instruction Book	1
	141-6-415T-20000	Notice, Sweidish	1
	141-2-862T-00400	Screw Driver, Lateral Weight Fixed	1
	CABINET & CHASSIS		
1	141-0-121T-13905	Deck Panel Assembly	1
	141-6-454T-15100	Rating Plate, Deck Panel Assy	1
2	141-2-126T-22600	Back Lid	1
3	141-2-361T-14300	Bracket Resistor, VR	1
5	141-2-118T-00500	Turntable	1
6	141-2-246T-23000	Sheet, Turntable	1
7	141-2-163T-46500	Rotary Knob, IFC	1
8	141-0-365T-38400	Bracket Assy Speed Select Switch	1
10	141-2-852T-45600	Spring Wire, Reject	1
11	141-2-852T-45700	Spring Wire, Ground	1
12	141-2-378T-09000	Bracket, Motor	1
13	141-2-447T-38600	Cushion, Motor	6
14	141-0-367T-30600	Bracket Socket Assy Output Power Cord	1
15	141-9-194T-00301	Dust Cover Assembly	1
16	141-0-174T-06600	Stand Assembly	4
17	141-2-251T-06102	Hinge	2
18	141-2-351T-37300	Bracket mtg. Dust Cover	2
19	141-2-352T-19900	Spacer, 45 rpm Adaptor	1
20	141-2-445T-19700	Rubber Cushion, Neon Lamp	1
21	141-2-310T-06600	Bracket, Lamp	1
22	141-2-464T-14400	Fixer, Power Cord	1
23	141-2-445T-16000	Rubber Cushion, Output Power Cord	1
24	141-2-163T-41100	Rotary Knob, Fine Speed Adjust	2
25	141-0-741T-21000	Lever Knob Assembly, Arm Lifter	1
26	141-2-742T-07300	Lever, Reject	1
27	141-0-873T-00200	Rest Assembly, Arm Rest	1
28	141-0-872T-00200	Lifter Assembly	1
29	141-2-855T-14200	Spring Coil, Lifter	1
30	123-2-472R-00401	Lug, Spring Wire	5
31	141-2-683T-28900	Ring, Reject	1
32	141-2-851T-73300	Spring Coil, Reject	1
33	141-2-352T-24800	Spacer, Micro Switch	1
34	141-2-683T-32401	Ring, Arm Rest Fix	1
35	141-2-352T-25300	Spacer, Leg	1
36	141-2-241T-20400	Veil, Arm Lifter Lever	1
37	141-2-447T-45700	Cushion, Reject Wire	1
38	141-2-352T-24701	Spacer, Micro Switch	1
39	141-2-421T-12400	Special Screw, Micro Switch	1
40	141-2-461T-28900	Pipe, Micro Switch	1
41	141-2-135T-49900	Cover, Micro Switch	1
42	141-2-472T-06800	Lug, Arm Spindle	1
43	141-2-340T-00200	Rope, Cord Retainer	1
44	141-2-411T-03901	Plate Nut, Mechanism	2
45	141-2-472T-01201	Lug	8
46	141-2-453T-00800	Washer 3x8x0.5	2
47	141-2-683T-33700	Ring, Speed Select Switch	2
48	141-2-461T-30800	Pipe, Motor	6
49	141-2-464T-08700	Fixer	4
50	141-2-472T-01202	Lug, Micro Switch Lead Retainer	1
51	141-2-683T-33800	Ring, Turntable Shaft	1
52	141-2-453T-01700	Washer, Motor Bracket	3

Ref. No.	Part No.	Description	Q'ty
	CABINET & CHASSIS		
53	141-2-464T-30000	Fixer, Output Power Lead	1
55	141-2-135T-53500	Cover, Motor	1
56	141-2-135T-52600	Cover	1
57	141-2-315T-16600	Reinforcement	1
	ELECTRICAL PARTS		
61	4-243T-77172	Power Cord	1
62	4-231T-61972	Switch, Neon Lamp	1
63	4-251T-73600	Power Trans	1
64	4-231T-61900	Switch, Power	1
65	4-612T-07000	Lamp	1
66	4-230T-19400	Printed Circuit Board, Output	1
67	4-230T-44200	Printed Circuit Board, AC Line	1
69	4-222T-51572	Variable Resistor 5K-B, Fine Speed Adjust	2
70	4-243T-15100	Output Cord	1
71	141-2-382T-05300	Terminal	3
72	123-2-472R-00600	Lug, Ground	2
73	4-231T-53600	Switch, Voltage Selector	1
75(R1)		Carbon Resistor 10K ohm ±10% ½W Neon Lamp	1
77(C5)		Mylar Capacitor 0.047μF ±20% 50W	1
76	140-9-230T-66601	Printed Circuit Board Assembly	1
SVR2	4-222T-39476	Semi Fixed Resistor 20K-B	1
SVR1	4-222T-39477	Semi Fixed Resistor 50K-B	1
IC		IC NJM78L12A	1
D2		Diode DS17	1
D1		Diode DS18	1
C4		Ceramic Capacitor 0.01μF +80 −20% 50V	1
C3		Electrolytic Capacitor 100μF 16V	1
C1		Electrolytic Capacitor 330μF 25V	1
	SCREW MOUNTING		
Y1		Pan Hd. Screw 3x14	2
Y2		Pan Hd. Screw 2.6x6	2
Y3		Pan Hd. Screw 2.6x8	3
Y4		Pan Hd. Screw 3x4	1
Y5		Pan Hd. Screw 3x6	3
Y6		Pan Hd. Screw 3x8	2
Y7		Pan Hd. Screw 3x10	1
Y8		Pan Hd. Screw 4x10	1
Y9		Flat Hd. Screw 2x20	1
Y10		Pan Hd. Tapping Screw 2.6x6	1
Y11		Pan Hd. Tapping screw 3x8	6
Y12		Pan Hd. Tapping Screw 3x12	1
Y13		Hexagon Nut 2.6	1
Y14		Washer 2.6	1
Y15		Washer 3x10x0.5	1
Y16		Spring Washer 2.6x5.3x0.6	3
Y17		Hexagon Socket Headless Screw 3x4	2
Y18		Headless Screw 4x4	2
Y19		Spring Washer 3x5.9x0.7	2
Y20		Pan Hd. Tapping Screw w/Washer 3x6	1
Y21		Pan Hd. Tapping Screw w/Washer 3x8	14
Y22		Pan Hd. Tapping Screw w/Washer 3x10	10
Y23		Pan Hd. Tapping Screw w/Washer 3x12	7
Y24		Pan Hd. Tapping Screw w/Washer 3x14	8
Y25		Pan Hd. Tapping Screw w/Washer 3x25	1
Y27		Pan Hd. Tapping Screw 3x6	1
Y28		Hexagon Nut 3	6

MECHANISM EXPLODED VIEW

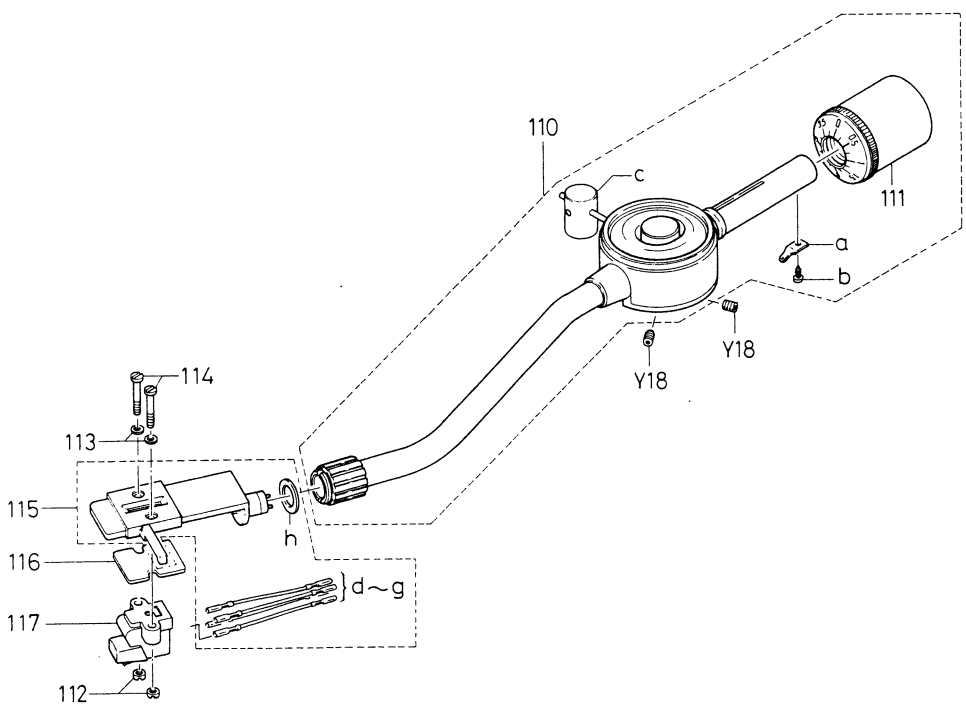


PARTS LIST

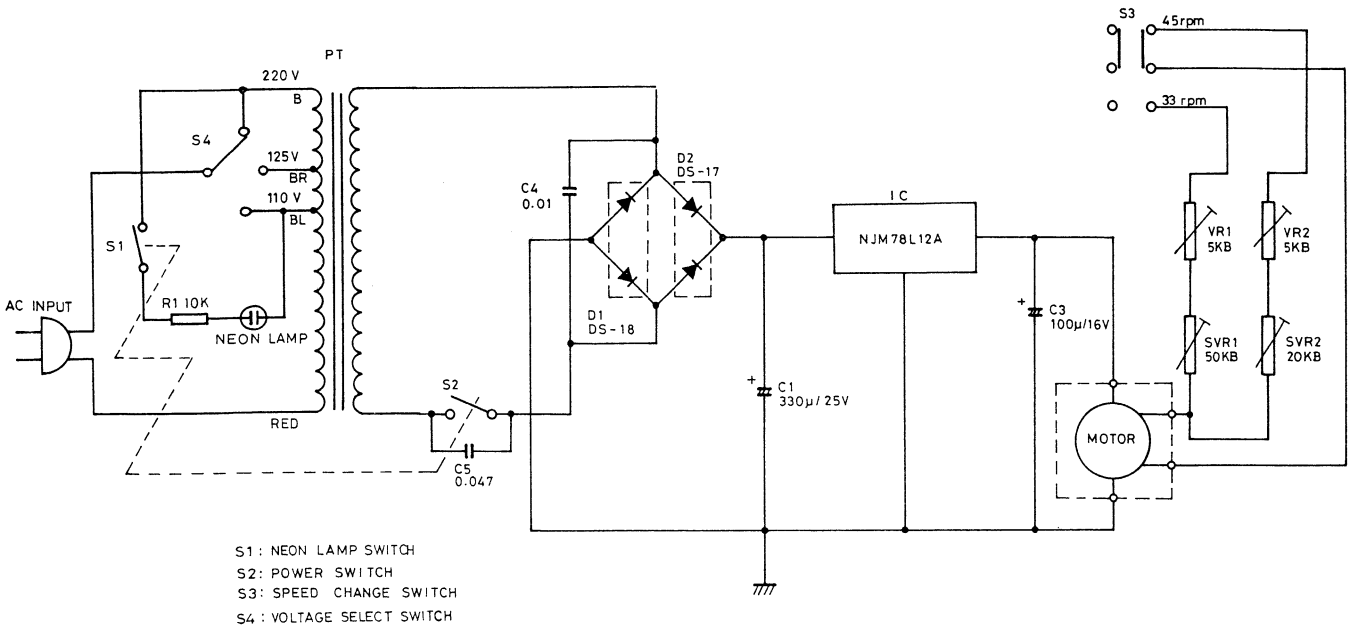
Ref. No.	Part No.	Description	Q'ty
	TURNTABLE MECHANISM		
80	141-0-311T-06700	Chassis Assembly	1
81	141-0-581T-00800	Gear Assembly	1
82	141-0-731T-15800	Slide Assembly	1
83	141-2-246T-26501	Sheet	1
84	141-2-457T-23200	Special Washer	2
85	141-2-851T-99500	Spring Coil	1
86	141-2-855T-14700	Spring Coil	1
87	141-0-747T-02400	Bracket Lever Assembly	1
88	141-0-741T-20700	Lever Assembly	1
89	141-0-351T-01300	Bracket Mounting Assembly	1
90	141-2-742T-06700	Lever	1
91	141-0-741T-20901	Lever Assembly	1
92	141-2-753T-19700	Shaft	1
93	141-2-457T-23101	Special Washer	3
94	141-2-851T-73500	Spring Coil	1
95	141-2-671T-05400	Cam	1
96	141-2-464T-25800	Fixer	1
97	4-527T-10800	Motor	1
98	141-2-661T-71800	Pulley, Motor	1
99	141-2-853T-53400	Spring Plate	1
100	141-2-561T-04200	Flat Belt	1
101	141-2-365T-36700	Bracket Switch	1
102	141-2-453T-30701	Washer	1
103	141-2-853T-51100	Spring Plate	1
104	141-2-457T-23100	Special Washer	1
105	141-0-174T-00401	Stand Assembly	1
A	141-2-753T-23402	Shaft	1
B	141-2-457T-12201	Special Washer	1
C	141-2-855T-17001	Spring Coil	1
D	141-2-742T-08901	Lever	1
E	141-2-453T-21500	Washer	1
	141-2-453T-30800	Washer (or)	2
106	141-0-751T-02800	Shaft Assembly	1
110	141-9-743T-00300	Arm Assembly	1
a	141-2-853T-53900	Spring Plate	1
b		Pan Head Tapping Screw 2x4mm	1
c	141-2-687T-01500	Weight	1
111	141-9-687T-00100	Weight Assembly	1

Ref. No.	Part No.	Description	Q'ty
112	141-2-417T-18100	Stud Nut	2
113	141-2-453T-32200	Washer	2
114	141-2-421T-23700	Special Screw	2
115	141-9-286T-00130	Head Shell Assembly	1
d	4-243T-15800	Lead Cord, LH	1
e	4-243T-15871	Lead Cord, LE	1
f	4-243T-15872	Lead Cord, RH	1
g	4-243T-15873	Lead Cord, RE	1
h	141-2-445T-20300	Rubber Cushion	1
116	141-2-687T-01630	Weight, Sub	1
117	4-157T-00801	Cartridge Assembly	1
	4-157T-00800	Cartridge	1
	4-156T-00500	Stylus	1

ARM EXPLODED VIEW

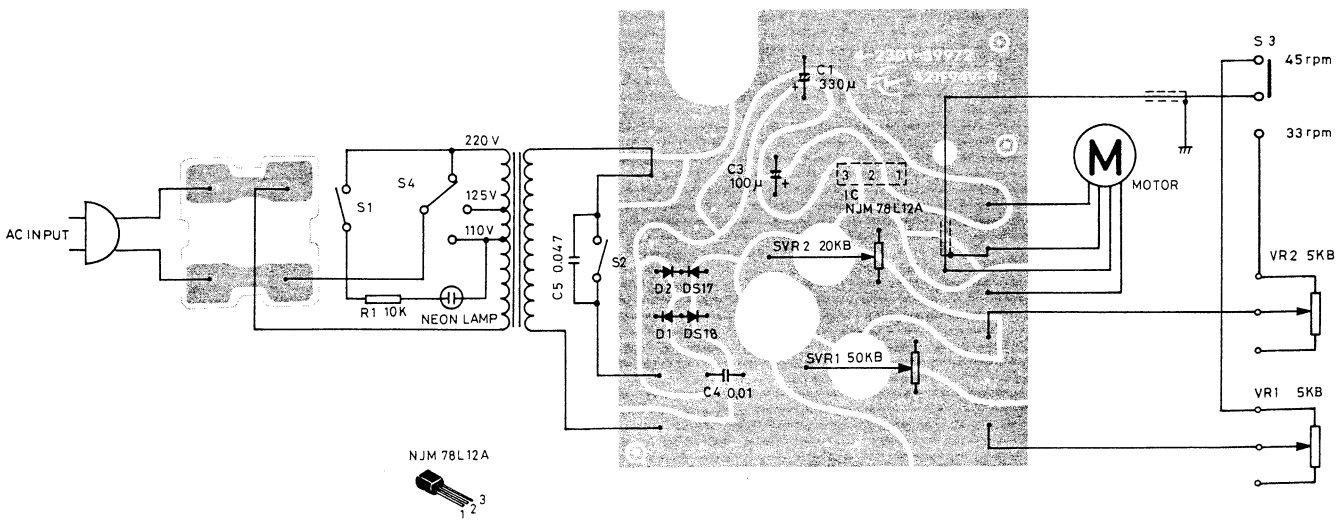


SCHEMATIC DIAGRAM



S1 : NEON LAMP SWITCH
S2: POWER SWITCH
S3: SPEED CHANGE SWITCH
S4 : VOLTAGE SELECT SWITCH

WIRING DIAGRAM



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